

I claim:

1. A Distributed Computer Resource Bartering System, or DCRBS, comprising:
 - a plurality of independent computing devices connected to one another through a network wherein each of the computing devices is provided with a variety of computing resources;
 - a coordination means installed on one of the computing devices to designate functionally a coordination computing device to coordinate the bartering of the variety of computing resources amongst all the computing devices ;
 - a bartering means installed on each of all the computing devices to designate functionally a plurality of computing devices to barter the variety of computing resources amongst all the computing devices; and

whereby a fraction of the computing resources of the individual computing device is bartered amongst them by the bartering means through the coordination of the coordination means such that the coordination computing device and the plurality of individual peer computing devices simultaneously communicate and functionally operate with one another through the network to perform an application.
2. The Distributed Computer Resource Bartering System according to claim 1 wherein the network is a Local Area Network, a Wide Area Network or the Internet.
3. The Distributed Computer Resource Bartering System according to claim 1 wherein said variety of computing resources are individually valued and systematically classified into a number of major bartering categories to effect a commerce driven bartering mechanism.
4. The Distributed Computer Resource Bartering System according to claim 3 wherein the major bartering categories are selected from the group consisting of computing power, computing memory, computing storage, computer peripherals, computer files, network access, and money.

5. The Distributed Computer Resource Bartering System according to claim 4 wherein the computing power is valued using parameters from the group comprising MIPS, MFLOPS and usage time.

6. The Distributed Computer Resource Bartering System according to claim 4 wherein the computing memory is valued using parameters from the group comprising MB, ns of Read time, ns of Write time and usage time.

7. The Distributed Computer Resource Bartering System according to claim 4 wherein the computing storage is valued using parameters from the group comprising MB, ms of Read time, ms of Write time and usage time.

8. The Distributed Computer Resource Bartering System according to claim 4 wherein the computer peripherals is valued using parameters from the group comprising resolution, color depth, speed and usage time.

9. The Distributed Computer Resource Bartering System according to claim 4 wherein the computer files is valued using parameters from the group comprising a series of respectively associated descriptive header files.

10. The Distributed Computer Resource Bartering System according to claim 4 wherein the network access is valued using parameters from the group comprising speed, QOS and usage time.

11. The Distributed Computer Resource Bartering System according to claim 4 wherein the money further comprises a subset of bartering items selected from the group consisting of cash, credit, sweepstakes and commissions.

12. The Distributed Computer Resource Bartering System according to claim 1 wherein the coordination computing device and one or more of the individual peer computing devices form one or more DCRBS communities that may either independently function or communicate and coordinate with one another simultaneously through the network for bartering activity.

13. The Distributed Computer Resource Bartering System according to claim 1 wherein the application includes, but not limited to, massively distributed computing, Peer-to-Peer Electronic Commerce, Peer-to-Peer file swapping, Web site security testing, Web performance testing, PEER-TO-PEER Streamline Media Broadcasting, Web Indexing Spider, Peer Software Router, PEER-TO-PEER Game Coordinator, Wireless PEER-TO-PEER Digital Content Swapping Platform, advanced information search engines and self-balanced data routing networks.

14. A Distributed Computer Resource Bartering System, or DCRBS, comprising:

a plurality of independent computing devices connected to one another through a network wherein each of the computing devices is provided with a variety of computing resources;

a bartering means installed on each of the computing devices to designate functionally a plurality of individual peer computing devices to barter the variety of computing resources amongst the individual peer computing devices; and

whereby a fraction of the computing resources of the individual peer computing device is bartered amongst them by the bartering means such that the plurality of individual peer computing devices simultaneously communicate and functionally operate with one another through the network to perform an application.

15. A method of performing a Distributed Computer Resource Bartering, or DCRB, comprising the steps of :

connecting a plurality of independent computing devices one another through a network wherein each of the computing devices is provided with a variety of computing resources;

installing a coordination means on one of the computing devices to designate functionally a coordination computing device to coordinate the bartering of the variety of computing resources amongst all the computing devices ;

installing a bartering means on each of all the computing devices to designate functionally a plurality of computing devices to barter the variety of computing resources amongst all the computing devices; and

bartering a fraction of the computing resources of the individual computing devices amongst them by the bartering means through the coordination of the coordination means such that the coordination computing device and the plurality of individual peer computing devices simultaneously communicate and functionally operate with one another through the network to perform a desirable application.

16. The method of performing a Distributed Computer Resource Bartering according to claim 15 wherein the network is a Local Area Network, a Wide Area Network or the Internet.
17. The method of performing a Distributed Computer Resource Bartering according to claim 16 wherein said variety of computing resources are individually valued and systematically classified into a number of major bartering categories to effect a commerce driven bartering mechanism.
18. The method of performing a Distributed Computer Resource Bartering according to claim 15 wherein the major bartering categories are selected from the group consisting of computing power, computing memory, computing storage, computer peripherals, computer files, network access, and money.
19. The method of performing a Distributed Computer Resource Bartering according to claim 18 wherein the computing power is valued using parameters from the group comprising MIPS, MFLOPS and usage time.
20. The method of performing a Distributed Computer Resource Bartering according to claim 18 wherein the computing memory is valued using parameters from the group comprising MB, ns of Read time, ns of Write time and usage time.
21. The method of performing a Distributed Computer Resource Bartering according to claim 18 wherein the computing storage is valued using parameters from the group comprising MB, ms of Read time, ms of Write time and usage time.

22. The method of performing a Distributed Computer Resource Bartering according to claim 18 wherein the computer peripherals is valued using parameters from the group comprising resolution, color depth, speed and usage time.

23. The method of performing a Distributed Computer Resource Bartering according to claim 18 wherein the computer files is valued using parameters from the group comprising a series of respectively associated descriptive header files.

24. The method of performing a Distributed Computer Resource Bartering according to claim 18 wherein the network access is valued using parameters from the group comprising speed, QOS and usage time.

25. The method of performing a Distributed Computer Resource Bartering according to claim 18 wherein the money further comprises a subset of bartering items selected from the group consisting of cash, credit, sweepstakes and commissions.

26. The method of performing a Distributed Computer Resource Bartering according to claim 15 further comprises the step of forming one or more DCRBS communities each comprising the coordination computing device and one or more of the individual peer computing devices that may either independently function or communicate and coordinate with one another simultaneously through the network for bartering activity.

27. The method of performing a Distributed Computer Resource Bartering according to claim 15 wherein the application includes, but not limited to, massively distributed computing, Peer-to-Peer Electronic Commerce, Peer-to-Peer file swapping, Web site security testing, Web performance testing, PEER-TO-PEER Streamline Media Broadcasting, Web Indexing Spider, Peer Software Router, PEER-TO-PEER Game Coordinator, Wireless PEER-TO-PEER Digital Content Swapping Platform, advanced information search engines and self-balanced data routing networks.